ASTHMA IN SOUTH CAROLINA

Common, Costly and Climbing

Produced by the Bureau of Community Health and Chronic Disease Prevention, SC DHEC

April, 2008

ASTHMA IN THE UNITED STATES

- U.S. asthma cases more than tripled from an estimated 6.7 million in 1980 to 22.5 million in 2005.
- Costs for asthma have more than doubled **from** an estimated \$6.2 billion in 1990, to over \$14 billion in 2001.
- An estimated 6.8 million (9.4%) U.S. children are asthmatic in 2005, more twice the entire population of South Carolina.
- **3,780 people died** of asthma in 2004 (1.3 per 100,000 population age-adjusted rate).

ASTHMA IN SOUTH CAROLINA

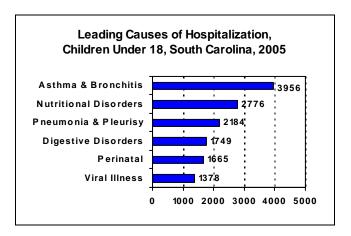
- Currently about 206,000 adults and 91,000 children suffer from asthma in South Carolina, based on 2003 estimates.
- **8.9% of children** in South Carolina currently suffer from asthma (7.4% White and 12.4% Black) compared to 8.0% nationwide, based on 2003 estimates.
- **77 South Carolinians died** from asthma in 2005 (1.8 per 100,000 population age-adjusted rate).
- In 2005, 1.2% (6,664) of ALL hospitalizations were for asthma.
- More than 30% of all those hospitalizations were among children.
- 20% of public high school students had ever been diagnosed with asthma in 2005 (by way of recalling prescription).
- Of those high school students who were asthmatic, 29% are current smokers, compared to the statewide high school students of 19%.
- 75% of high school students with asthma were exposed to second hand smoke in a room or car within the past week.
- According to the Surgeon General, children with asthma exposed to environmental tobacco smoke experience more frequent and severe asthma attacks.

While children and young adults are the main population described here, but older adults also suffer from asthma.

Many people with asthma receive care from their family doctor, but the best asthma data in South Carolina comes from hospitalization and Emergency Room [ER] records. People with asthma severe enough to need hospitalization or an ER visit may be the ones most in need of education and public health services.

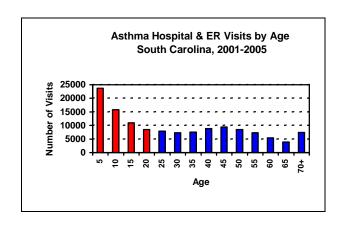
Young people suffer the most from asthma in South Carolina.

 Asthma prevalence rate is highest among those under 18 years old, and is the most common chronic disease and leading cause of disability among children.



ASTHMA & BRONCHITIS

- Asthma and related conditions were the leading cause of children's hospitalizations in 2005, with nearly 4000 admissions. The third leading cause, pneumonia, is diagnosed more frequently in children with asthma.
- Over 100,000 ER visits were due to asthma during 2001-2005.
- Children visited the ER more than 45,000 times (45% of the total) for asthma during 2001-2005.



What are symptoms of asthma?

- ✓ Shortness of breath
- ✓ Wheezing
- ✓ Tightness in the chest
- ✓ Coughing

Some asthmatic people don't wheeze. They may only cough, especially after exercise or during the night.

What are some common triggers for an asthma attack?

- ✓ Cigarette smoke
- ✓ Dander (flakes) from the skin, hair or feathers of pets
- ✓ House dust mites
- ✓ Cockroaches
- ✓ Pollen from grass and trees
- ✓ Molds (indoor and outdoor)
- ✓ Upper airway infections, like colds
- ✓ Scented hair spray, cosmetics
- ✓ Scented cleaning products
- ✓ Strong odors from fresh paint or cooking
- ✓ Automobile fumes
- ✓ Air pollution, including ozone
- ✓ Exercise
- ✓ Strong feelings (crying, joy)

What can you expect from proper asthma treatment?

- ✓ Enjoy sports and exercise.
- ✓ Sleep through the night without asthma symptoms.
- ✓ Prevent asthma attacks.
- ✓ Avoid side effects from asthma medicines.
- ✓ Changes in weather and temperature

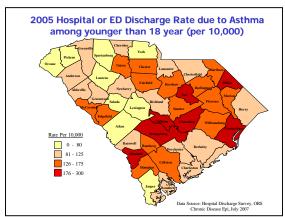
Can asthma attacks be prevented? YES! Can asthma attacks be treated? YES!

To prevent asthma attacks, work closely with your doctor to:

- ✓ Reduce contact with your triggers, especially at home.
- ✓ Stop smoking (cigarettes, cigars, or pipes) and keep your children away from cigarette smoke.
- ✓ Monitor your own breathing and airways with a simple device called a peak flow meter.
- ✓ Make a medicine plan to treat your symptoms when you have an attack.
- ✓ Learn when to seek medical help.
- ✓ Treat symptoms early.

The Cost of Asthma

- The total direct and indirect cost of asthma in the United States for 2007 was estimated at \$19.7 billion. This figure includes \$14.7 billion in direct health care costs and another \$5 billion for indirect costs.
- The **public and private sectors** share the cost of asthma equally.
- The costs of asthma to Medicaid can be greatly reduced by educating patients to recognize signs early, thus reducing emergency room and hospital visits.



South Carolina Asthma Planning Alliance Partners

- The Alliance of South Carolina Health Plans
- American Academy of Pediatrics, South Carolina Chapter
- American Lung Association of South Carolina
- AnMed Health
- BlueChoice Health Plan
- Carolina Crescent Health Plan
- Family Connection of South Carolina
- Greenville Hospital System
- Partnership to Fight Chronic Disease
- Select Health of SC, Inc.
- Schering Plough
- State Health Plan Prevention Partners
- South Carolina Budget and Control Board
- South Carolina Department of Education
- South Carolina Department of Health and Environmental Control
- South Carolina Department of Health and Human Services
- · South Carolina Society for Respiratory Care
- South Carolina Tobacco Collaborative
- Tuomey HealthCare System
- University of South Carolina School of Public Health

Data sources: National Center for Health Statistics, National Survey of Children's Health, Asthma & Allergy Foundation of America, SC BRFSS, SC Vital Records, SC Office of Research & Statistics, SC YTS, *The Health Consequences of Involuntary Exposure to Tobacco Smoke: A Report of the Surgeon General 2006.*, American Lung Association, Carolina Medical Review. For digital copy visit www.scdhec.net/hs/epi

